

Sym

PAS

PPPPPPPPPPPPPP  
PPPPPPPPPPPPPP  
PPPPPPPPPPPPPP  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPPPPPPPPPPPPP  
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AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
PPP AAA AAA SSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL

PPPPPPPP	AAAAAA	SSSSSSS	RRRRRRR	EEEEEEEEE	SSSSSSS	EEEEEEEEE	TTTTTTTTT	KK	KK
PPPPPPPP	AAAAAA	SSSSSSS	RRRRRRR	EEEEEEEEE	SSSSSSS	EEEEEEEEE	TTTTTTTTT	KK	KK
PP PP	AA AA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP PP	AA AA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP PP	AA AA	SS	RR RR	EE	SS	EE	TT	KK	KK
PPPPPPPP	AA AA	SSSSSS	RRRRRRR	EEEEEEEEE	SSSSSS	EEEEEEEEE	TT	KK	KK
PPPPPPPP	AA AA	SSSSSS	RRRRRRR	EEEEEEEEE	SSSSSS	EEEEEEEEE	TT	KKKKKK	KK
PP	AAAAAAAAAA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP	AAAAAAAAAA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP	AA AA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP	AA AA	SS	RR RR	EE	SS	EE	TT	KK	KK
PP	AA AA	SSSSSSS	RR RR	EEEEEEEEE	SSSSSSS	EEEEEEEEE	TT	KK	KK
PP	AA AA	SSSSSSS	RR RR	EEEEEEEEE	SSSSSSS	EEEEEEEEE	TT	KK	KK

LL		SSSSSSS
LL		SSSSSSS
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LL		SS
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LL		SS
LLLLLLLLL		SSSSSSS
LLLLLLLLL		SSSSSSS

```
1 0001 0 MODULE PAS$RESETK ( %TITLE 'RESETK procedure'  
2 0002 0 IDENT = '1-001'  
3 0003 0 ) = ! File: PASRESETK.B32 Edit: SBL1001  
4 0004 1 BEGIN  
5 0005 1  
6 0006 1 *****  
7 0007 1 *  
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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25 0025 1 *  
26 0026 1 *  
27 0027 1 *****  
28 0028 1  
29 0029 1  
30 0030 1 ++  
31 0031 1 FACILITY: Pascal Language Support  
32 0032 1  
33 0033 1 ABSTRACT:  
34 0034 1  
35 0035 1 This module contains PAS$RESETK, which implements the  
36 0036 1 VAX-11 Pascal RESETK procedure.  
37 0037 1  
38 0038 1 ENVIRONMENT: User mode - AST reentrant  
39 0039 1  
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 16-February-1982  
41 0041 1  
42 0042 1 MODIFIED BY:  
43 0043 1  
44 0044 1 1-001 - Original. SBL 16-February-1982  
45 0045 1 --  
46 0046 1
```

```
: 48      0047 1 %SBTTL 'Declarations'  
49      0048 1  
50      0049 1 PROLOGUE DEFINITIONS:  
51      0050 1  
52      0051 1  
53      0052 1 REQUIRE 'RTLIN:PASPROLOG';           ! Externals, linkages, PSECTs, structures  
54      0116 1  
55      0117 1  
56      0118 1 TABLE OF CONTENTS:  
57      0119 1  
58      0120 1  
59      0121 1 FORWARD ROUTINE  
60      0122 1     PASSRESETK: NOVALUE;          ! Do a RESETK  
61      0123 1  
62      0124 1  
63      0125 1 MACROS:  
64      0126 1  
65      0127 1     NONE  
66      0128 1  
67      0129 1 EQUATED SYMBOLS:  
68      0130 1  
69      0131 1     NONE  
70      0132 1  
71      0133 1 FIELDS:  
72      0134 1  
73      0135 1     NONE  
74      0136 1  
75      0137 1 OWN STORAGE:  
76      0138 1  
77      0139 1     NONE  
78      0140 1
```

```
80      0141 1 %SBTTL 'PASS$RESETK - RESETK procedure'
81      0142 1 GLOBAL ROUTINE PASS$RESETK (
82      0143 1     PFV: REF $PAS$PFV FILE VARIABLE,
83      0144 1     KEY_NUMBER: REF VECTOR[, LONG],
84      0145 1     ERROR
85      0146 1   ): NOVALUE =
86
87      0148 1   ++
88      0149 1   FUNCTIONAL DESCRIPTION:
89      0150 1
90      C151 1   PASS$RESETK implements the VAX-11 Pascal RESETK procedure. It
91      0152 1   rewinds the indexed file to the beginning of the specified index.
92
93      0153 1   CALLING SEQUENCE:
94
95      0156 1   CALL PASS$RESETK (PFV.mr.r, KEY_NUMBER.rl.r [, ERROR.j.r])
96
97      0158 1   FORMAL PARAMETERS:
98
99      0160 1     PFV           - The Pascal File Variable (PFV) passed by reference.
100     0161 1           The structure of the PFV is defined in PASPFV.REQ.
101
102     0163 1     KEY_NUMBER    - The number of the key to rewind on.
103
104     0165 1     ERROR          - Optional. If specified, the address to unwind to
105     0166 1           if an error occurs.
106
107     0168 1   IMPLICIT INPUTS:
108     0169 1     NONE
109
110     0170 1   IMPLICIT OUTPUTS:
111     0172 1     NONE
112
113     0174 1   ROUTINE VALUE:
114     0175 1     NONE
115
116     0177 1   SIDE EFFECTS:
117     0178 1     Places file in Inspection mode
118
119     0180 1   SIGNALLED ERRORS:
120
121     0182 1     FILNOTOPE - File not open
122     0183 1     FILNOTKEY - File not opened for keyed access
123     0184 1     KEYNOTDEF - Key "n" is not defined for this file
124     0185 1     ERRDURRES - Error during RESET or RESETK
125
126     0186 1     --
127
128     0187 1
129     0188 1
130     0189 1
131     0190 1
132     0191 1
133     0192 1
134     0193 1
135     0194 2   BEGIN
136     0195 2
137     0196 2   LOCAL
138     0197 2     FCB: REF $PAS$FCB_CONTROL_BLOCK.           ! File control block
```

```
137      0198 2      STATUS,  
138      0199 2      PFV_ADDR: VOLATILE,  
139      0200 2      UNWIND_ACT: VOLATILE,  
140      0201 2      ERROR_ADDR: VOLATILE;  
141      0202 2  
142      0203 2      BIND  
143          RAB = FCB: REF_BLOCK [, BYTE];           ! RMS RAB  
144      0204 2  
145      0205 2  
146      0206 2      BUILTIN  
147          ACTUALCOUNT;  
148      0207 2  
149      0208 2  
150      0209 2      ENABLE  
151          PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT , ERROR_ADDR);  
152      0210 2  
153      0211 2      IF ACTUALCOUNT () GEQU 3  
154      0212 2      THEN  
155          0213 2      ERROR_ADDR = .ERROR;           ! Set unwind address  
156          0214 2  
157          0215 2  
158          0216 2  
159          0217 2      !+ Set PFV address enable argument.  
160          0218 2      !-  
161          0219 2  
162          0220 2      PFV_ADDR = PFV [PFV$R_PFV];  
163          0221 2  
164          0222 2  
165          0223 2      !+ Validate and lock PFV  
166          0224 2      !-  
167          0225 2  
168          0226 2      PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);  
169          0227 2  
170          0228 2  
171          0229 2      !+ Set unwind action to unlock file.  
172          0230 2      !-  
173          0231 2  
174          0232 2      UNWIND_ACT = PASS$UNWIND_UNLOCK;  
175          0233 2  
176          0234 2  
177          0235 2      !+ Open file if it should be implicitly opened.  
178          0236 2      !-  
179          0237 2  
180          0238 2      IF NOT .PFV [PFV$V_VALID]  
181          0239 2      THEN  
182              PASS$OPEN_IMPLICT (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);  
183          0240 2  
184          0241 2  
185          0242 2  
186          0243 2      !+ Verify that the file is open.  
187          0244 2      !-  
188          0245 2  
189          0246 2      IF NOT .PFV [PFV$V_OPEN]  
190          0247 2      THEN  
191              SPASS$IO_ERROR (PASS$FILNOTOPE,0);  
192          0248 2  
193          0249 2  
194          0250 2      !+ Verify that the file is opened for keyed access  
195          0251 2      !-  
196          0252 2  
197          0253 2  
198          0254 2      IF NOT .FCB [FCB$V_KEYED]
```

```

194      0255 2   THEN
195      0256 2     $PASS$IO_ERROR (PASS$_FILNOTKEY,0);
196      0257 2
197      0258 2
198      0259 2   !+
199      0260 2     Verify that the key number is valid for the file.
200      0261 2   !-
201      0262 2
202      0263 2   IF .KEY_NUMBER [0] GEQU .FCB [FCBSL_NKEYS]
203      0264 2   THEN
204          $PASS$IO_ERROR (PASS$_KEYNOTDEF,1,.KEY_NUMBER [0]);
205      0265 2
206      0266 2
207      0267 2   !+
208      0268 2     Set the key number and do a $REWIND.
209      0269 2   !-
210      0270 2     RAB [RAB$B_KRF] = .KEY_NUMBER [0];           ! Set key number
211      0271 2     PFV [PFV$V_DFB] = 0;                   ! Undefine file buffer
212      0272 2     FCB [FCBSV_EOF] = 0;                  ! Not (yet) at EOF
213      0273 2
214      0274 2     STATUS = $PASS$RMS_OP ($REWIND (RAB=RAB));
215      0275 3     IF NOT .STATUS AND (.STATUS NEQ RMSS_BOF) AND (.STATUS NEQ RMSS_EOF)
216      0276 2   THEN
217          $PASS$IO_ERROR (PASS$_ERRDURRES); ! Error during RESET or RESETK
218      0277 2
219      0278 2   !+
220      0279 2     Do a GET.
221      0280 2   !-
222      0281 2
223      0282 2
224      0283 2
225      0284 2     PASS$GET (PFV [PFV$R_PFV], FCB [FCBSR_FCB]);
226      0285 2
227      0286 2
228      0287 2   !+
229      0288 2     Set Inspection mode
230      0289 2     Indicate successful completion
231      0290 2     Unlock the file
232      0291 2
233      0292 2     FCB [FCBSV_INSPECTION] = 1;
234      0293 2     FCB [FCBSV_GENERATION] = 0;
235      0294 2     FCB [FCBSL_STATUS] = 0;
236      0295 2     PFV [PFV$V_LOCK] = 0;
237      0296 2
238      0297 2     RETURN;
239      0298 2
240      0299 1   END;                                ! End of routine PASS$RESETK

```

```

.TITLE  PASS$RESETK RESETK procedure
.IDENT  \1-001\

.EXTRN  PASS$RESETK, PASS$IO_HANDLER
.EXTRN  PASS$VALIDATE_PFV
.EXTRN  PASS$OPEN_IMPCIT
.EXTRN  PASS$SIGNAL, PASS$FILNOTOPE
.EXTRN  PASS$FILNOTKEY
.EXTRN  PASS$KEYNOTDEF
.EXTRN  SYSSREWIND, PASS$ERRDURRES

```

				.EXTRN	PASS\$GET	
				.PSECT	_PASSCODE,NOWRT, SHR, PIC,2	
				.ENTRY	PASS\$RESETK, Save R2,R3,R4,R5,R6,R7	: 0142
				MOVAB	PASS\$SIGNAL, R5	
				SUBL2	#8, SP	: 0194
				CLRL	ERROR_ADDR	
				CLRQ	UNWIND_ACT	
				MOVAL	10S (FP)	
				CMPB	(AP), #3	
				BLSSU	1S	
				MOVL	ERROR, ERROR_ADDR	: 0212
				MOVL	PFV, R6	: 0214
				MOVL	R6, PFV_ADDR	: 0220
				JSB	PASS\$VALIDATE_PFV	: 0226
				MOVL	#1, UNWIND_ACT	: 0232
				BLBS	6(R6), 2S	: 0238
				JSB	PASS\$OPEN_IMPLICIT	: 0240
				BBS	#5, 7(R6), 3S	: 0246
				CLRL	-(SP)	: 0248
				MOVZBL	#PASSK_FILNOTOPE, -(SP)	
				BRB	4S	
				MOVAB	-4(FCB), R4	: 0254
				BBS	#2, (R4), 5S	
				CLRL	-(SP)	: 0256
				MOVZBL	#PASSK_FILNOTKEY, -(SP)	
				CALLS	#2, PASS\$SIGNAL	
				RET		
				CMPL	@KEY_NUMBER, -48(FCB)	: 0262
				BLSSU	6S	
				PUSHL	@KEY_NUMBER	: 0264
				PUSHL	#1	
				MOVZBL	#PASSK_KEYNOTDEF, -(SP)	
				CALLS	#3, PASS\$SIGNAL	
				RET		
				MOVAB	@KEY_NUMBER, 53(FCB)	: 0270
				BICB2	#2, 6(R6)	: 0271
				BICB2	#32, 1(R4)	: 0272
				PUSHL	FCB	: 0274
				CALLS	#1, SYSSREWIND	
				BLBS	\$\$STATUS, 9S	
				CMPL	\$\$STATUS, #98906	
				BNEQ	8S	
				BLBS	3(R4), 7S	
				BLBS	STATUS, 9S	: 0275
				CMPL	STATUS, #98712	
				BEQL	9S	
				CMPL	STATUS, #98938	
				BEQL	9S	
				MOVZBL	#PASSK_ERRDURRES, -(SP)	: 0277
				CALLS	#1, PASS\$SIGNAL	
				RET		
				JSB	PASS\$GET	: 0284
				BISB2	#8, 1(R4)	: 0292
				BICB2	#16, 1(R4)	: 0293
				CLRL	-44(FCB)	: 0294

PASSRESETK  
1-001

RESETK procedure  
PASSRESETK - RESETK procedure

L 16

16-Sep-1984 02:06:18  
14-Sep-1984 12:51:54

VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASRESETK.B32;1

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(3)

07	A6	80	8F	8A	000C2	BICB2	#128, 7(R6)	: 0295
			04	000C7		RET		: 0299
			0000	000C8	10\$:	.WORD	Save nothing	: 0194
50		08	AC	D0	000CA	MOVL	8(AP), R0	
50		04	A0	D0	000CE	MOVL	4(R0), R0	
		F4	A0	9F	000D2	PUSHAB	ERROR_ADDR	
		F8	A0	9F	000D5	PUSHAB	UNWIND_ACT	
		FC	A0	9F	000D8	PUSHAB	PFV_ADDR	
			03	DD	000DB	PUSHL	#3	
			5E	DD	000D9	PUSHL	SP	
		7E	04	AC	7D	000DF	MOVQ	4(AP), -(SP)
	0000000G	00	03	FB	000E3	CALLS	#3, PASS\$IO_HANDLER	
			04	000EA		RET		

; Routine Size: 235 bytes, Routine Base: \_PASS\$CODE + 0000

; 239        0300 1  
; 240        0301 1 !<BLF/PAGE>

PASS\$RESETK  
1-001

RESETK procedure  
PASS\$RESETK - RESETK procedure

M 16  
16-Sep-1984 02:06:18 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:51:54 [PASRTL.SRC]PASRESETK.B32;1

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(4)

: 242 0302 1 END  
: 243 0303 1  
: 244 0304 0 ELUDOM

: ! End of module PASS\$RESETK

#### PSECT SUMMARY

Name	Bytes	Attributes
_PASS\$CODE	235	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	Total	Symbols	Pages	Processing
	Total	Loaded	Mapped	Time
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	8	0	00:01.0
-\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	96	22	00:00.4

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:PASRESETK/OBJ=OBJ\$:PASRESETK MSRC\$:PASRESETK/UPDATE=(ENH\$:PASRESETK  
)

Size: 235 code + 0 data bytes  
Run Time: 00:06.8  
Elapsed Time: 00:25.8  
Lines/CPU Min: 2698  
Lexemes/CPU-Min: 16136  
Memory Used: 103 pages  
Compilation Complete

0296 AH-BT13A-SE  
VAX/VMS V4.0

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PASREABOO  
LIS

PASRESET1  
LIS

PASRESETK  
LIS

PASREAREH  
LIS

PASREAREG  
LIS

PASRESET2  
LIS

PASRAB  
LIS

PASREADIN  
LIS

PASREAREF  
LIS

PASREAUAR  
LIS

PASREACHA  
LIS

PASREADUT  
LIS

PASREARENU  
LIS

PASREALUNS  
LIS

PASREARED  
LIS

PASRESETR  
LIS

PASREADOUT  
LIS